GOVERNMENT OF INDIA
WATER RESOURCES
LOK SABHA

STARRED QUESTION NO:411
ANSWERED ON:12.08.2002
SURVEY ON GROUND WATER FOR IRRIGATION
V. VETRISELVAN

Will the Minister of WATER RESOURCES be pleased to state:

(a) whether the Government have conducted any survey to assess the availability of ground water for irrigation;

(b) if so, the details thereof;

(c) the extent to which the ground water has been exploited for irrigation in each State;

(d) whether there has been any excess exploitation of ground water in any part of the country;

(e) if so, the details thereof; and

(f) the remedial steps being considered by the Government in this regard ?

Answer

THE MINISTER OF WATER RESOURCES (SHRI ARJUN CHARAN SETHI)

(a) to (f) A Statement is laid on the Table of the House.

STATEMENTREFERRED TO IN REPLY OF PARTS (a) TO (f) OFLOK SABHA STARREDQUESTIONNO.411 FOR ANSWER ON 12.08.2002 REGARDING SURVEY ON GROUND WATER FOR IRRIGATION

Based on survey of ground water resources conducted, the availability of ground water for irrigation has been assessed as 362 BCM (Billion Cubic Metre). The utilizable irrigation potential thatcan be developed from this is assessed as 64.06 million hectares in the country. The State-wise availability of irrigation potential from ground water and the extent of its use for irrigation is given in Annexure-I. There has been excess exploitation of ground water in certain parts of the country. A list of over-exploited and dark blocks is given in Annexure-II. Waterbeing a State subject, steps to augment ground water resources i s to be taken by the concerned State Government. The remedial steps taken by the Union Government in the country include:-

(i) Implementation of a Central Sector Scheme for Study of Recharge to Ground Water on "pilot basis" in the country during the IX Five Year Plan at a cost of Rs. 23.48 crore.

(ii) Organisation of mass awareness and training programmes on water harvesting and recharging of ground water all over the country.

(iii) Constitution of Central Ground Water Authority under the Environment (Protection) Act, 1986 for regulation and control of ground water management and development.

(iv) Notification in 11 areas/districts restricting/banning ground water exploitation.

(v) Circulation of a Model Bill in the year 1970 which was re- circulated in 1992 and 1996 to all the States/Union Territories to enable them to enact suitable legislation for regulation and control of ground water development.

(vi) Preparation and circulation of guidelines/Manual on artificial recharge of ground water to the States/Union Territories to enable them to formulate area specific artificial recharge schemes to check the declining trend in ground water levels.

(vii) A Central Sector Scheme of Recharge to Ground Water at an estimated cost of Rs. 150 crore for inclusion in the X Five Year Plan has been prepared.

ANNEXURE-I

(REFERENCE LOK SABHA STARRED QUESTION NO. 411 DATED 12.08.2002)

IRRIGATION POTENTIAL FROM GROUND WATER

(upto March, 2002 likely)

(m. ha: million hectare)

Sl. No.	States	Utilisable Irrigation Potential m. ha	Potential Created m. ha	Potential Utilised m. ha
1.	Andhra Pradesh	3.96008	3.31100	2.36500
2.	Arunachal Pradesh	0.01800	0.00100	0.00100
3.	Assam	0.90000	0.44200	0.28400
4.	Bihar	4.94763	4.03300	2.54700
5.	Goa	0.02928	0.00400	0.00400
6.	Gujarat	2.75590	2.41800	1.78500
7	Haryana	1.46170	2.37900	2.24000
8.	Himachal Pradesh	0.06850	0.02700	0.02100
9.	Jammu & Kashmir	0.70795	0.01300	0.01100
10.	Karnataka	2.57281	1.32100	1.03100
11.	Kerala	0.87925	0.17700	0.17000
12.	Madhya Pradesh	9.73249	4.16700	3.09000
13.	Maharashtra	3.65197	3.54900	2.46900
14.	Manipur	0.36900	0.00100	0.00100
15.	Meghalaya	0.06351	0.00200	0.00100
16.	Mizoram	0.00500	0.00100	0.00100
17.	Nagaland	0.00500	0.00100	0
18.	Orissa	4.20258	0.55500	0.35000
19.	Punjab	2.91715	6.92500	6.30300
20.	Rajasthan	1.77783	4.51100	4.03200
21.	Sikkim	Not assessed	0	0
22.	Tamil Nadu	2.83205	2.30100	1.33400
23.	Tripura	0.08056	0.01300	0.01000
24.	Uttar Pradesh	16.79896	16.34900	13.57400
25.	West Bengal	3.31794	2.23900	1.59700
Total States		64.05514	54.74000	43.22100
Total UTs		0.00504	0.06600	0.06500
Grand Total		64.06018	54.80600	43.28600

Source: Draft Report of the Working Group on Minor Irrigation for formulation of the X Plan (2002-2007) proposals, Minor Irrigation Division, Ministry of Water Resources.

Annexure-II

(REFERENCE LOK SABHA STARRED QUESTION NO. 411 DATED 12.08.2002)

CATEGORISATION OF BLOCKS/MANDALS/TALUKS/WATERSHEDS AS OVER EXPLOITED AND DARK ON ALL INDIA BASIS

Sl. No	States/UTs	Number Of Districts	Number of Blocks/Mandals/ Talukas/ Watersheds	No. of Blocks/ Taluks/ Mandals/ Watersheds Over-exploited		Dark	
				No.	%	No.	%
1	Andhra Pradesh	22	1104	12	1.09	14	1.27
2	Arunachal Pradesh	3		0	0.00	0	0.00
3	Assam	23	134	0	0.00	0	0.00
4	Bihar	42	589	3	0.51	9	1.53
5	Goa	3	12	0	0.00	0	0.00
6	Gujarat	19	184	13	7.07	15	8.15
7	Haryana	17	108	33	30.56	8	7.41
8	Himachal Pradesh	12	69	0	0.00	0	0.00
9	Jammu & Kashmir	14	123	0	0.00	0	0.00
10	Karnataka	19	175	7	4.00	9	5.14
11	Kerala	14	154	0	0.00	0	0.00
12	Madhya Pradesh	45	459	2	0.44	1	0.22
13	Maharashtra	29	231	2	0.87	6	2.60
14	Manipur	6	26	0	0.00	0	0.00
15	Meghalaya	5	29	0	0.00	0	0.00
16	Mizoram	3	20	Not Assessed			
17	Nagaland	7	21	0	0.00	0	0.00
18	Orissa	30	314	4	1.27	4	1.27
19	Punjab	17	138	72	52.17	11	7.97
20	Rajasthan	32	236	74	31.36	20	8.47
21	Sikkim	4	4	Not Assessed			
22	Tamil Nadu	27	384	64	16.67	39	10.16
23	Tripura	3	17	0	0.00	0	0.00
24	Uttar Pradesh	58	819	19	2.32	21	2.56
25	West Bengal	16	341	0	0.00	1	0.29
Total States		470	5691	305		158	
1	Andaman & Nicobar						
2	Chandigarh						
3	Dadar & Nagar Haveli						
4	Daman & Diu		2	1	50.00	1	50.00
5	NCT Delhi		5	3	60.00	1	20.00
6	Lakshadweep		9	0	0.00	0	0.00
7	Pondicherry		4	1	25.00	-	0.00
Total UTs		20	5		2		
Grand Total			5711	310		160	

Note: Andhra Pradesh – Mandal; Gujarat, Karnataka, Maharashtra - Taluks/ Tehsils